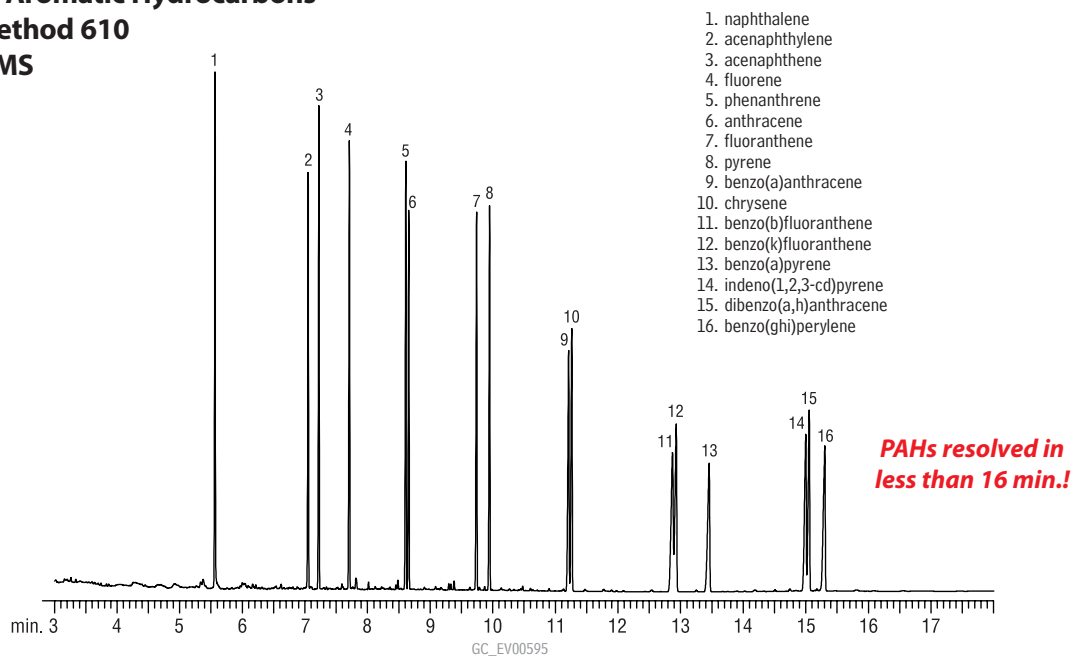


**Polycyclic Aromatic Hydrocarbons**  
**US EPA Method 610**  
**Rtx®-5Sil MS**



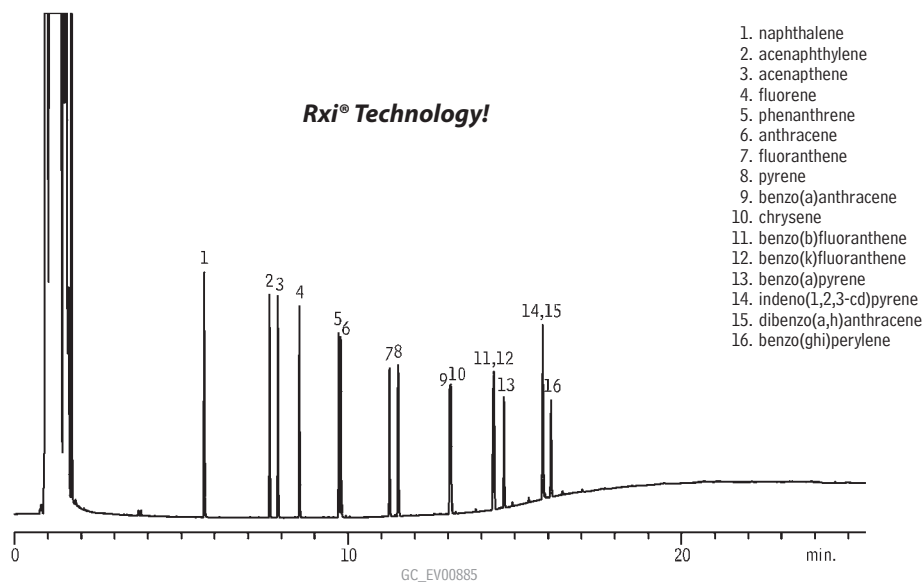
Column: Rtx®-5Sil MS, 30m, 0.25mm ID, 0.25 $\mu$ m (cat.# 12723)  
 Sample: 50 $\mu$ g/mL 610 PAH Mix (cat.# 31011)  
 in methylene chloride  
 Inj.: 1.0 $\mu$ L splitless (hold 2 min.),  
 2mm splitless inlet liner w/wool (cat.# 20829)  
 Inj. temp.: 330°C  
 Carrier gas: hydrogen, 4mL/min. constant flow  
 Oven temp.: 40°C (hold 2 min.) to 250°C @ 25°C/min. to 265°C @ 5°C/min.  
 to 300°C (hold 4 min.) @ 25°C/min.  
 Det.: FID @ 350°C

1. naphthalene
2. acenaphthylene
3. acenaphthene
4. fluorene
5. phenanthrene
6. anthracene
7. fluoranthene
8. pyrene
9. benzo(a)anthracene
10. chrysene
11. benzo(b)fluoranthene
12. benzo(k)fluoranthene
13. benzo(a)pyrene
14. indeno(1,2,3-cd)pyrene
15. dibenzo(a,h)anthracene
16. benzo(ghi)perylene

**PAHs resolved in  
 less than 16 min.!**

**Polycyclic Aromatic Hydrocarbons**  
**US EPA Method 610**  
**Rxi®-1ms**

**new!**



Column: Rxi®-1ms, 20m, 0.18mm ID, 0.18 $\mu$ m (cat.# 13302)  
 Sample: SV Calibration Mix #5/610 PAH Mix (cat.# 31011),  
 2000 $\mu$ g/mL each component in methylene chloride  
 Inj.: 0.5 $\mu$ L, split, split ratio 20:1, 3.5mm Precision™ inlet liner (cat.# 21021)  
 Instrument: Shimadzu GC-2010  
 Inj. temp.: 275°C  
 Carrier gas: hydrogen, constant pressure  
 Linear velocity: 55cm/sec. @ 40°C  
 Oven temp.: 40°C (hold 1 min.) to 330°C @ 20°C/min. (hold 10 min.)  
 Det.: FID @ 350°C

1. naphthalene
2. acenaphthylene
3. acenaphthene
4. fluorene
5. phenanthrene
6. anthracene
7. fluoranthene
8. pyrene
9. benzo(a)anthracene
10. chrysene
11. benzo(b)fluoranthene
12. benzo(k)fluoranthene
13. benzo(a)pyrene
14. indeno(1,2,3-cd)pyrene
15. dibenzo(a,h)anthracene
16. benzo(ghi)perylene